

REMARKS

Claims 1-9 are active in the present application. Claims 3-9 have been amended to remove multiple dependencies. No new matter is added. An action on the merits and allowance of the claims is solicited.

Respectfully submitted,

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Serial No:

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Amendment Filed on:

IN THE TITLE

Please delete the title and replace with the following title.

[PREVENTION OF UNDESIREP POLYMERIZATION IN A MIXTURECONTAINING
ETHYLENICALLY UNSATURATED COMPOUNDS]

--METHOD FOR PREVENTING UNDESIREP POLYMERISATION IN A
MIXTURE OF SUBSTANCES CONTAINING ETHYLENICALLY UNSATURATED
COMPOUNDS--

IN THE CLAIMS

Please amend the claims as follows.

--3. (Amended) A process as claimed in claim 1 [or 2], wherein the electronic signal is obtained by exposing the mixture or a portion thereof to a magnetic field and simultaneously applying an alternating electromagnetic field, the resonance caused by the N-oxyl radicals being detected.

4. (Amended) A process as claimed in claim 2 [or 3], in which the distillation is carried out in a cascade of a plurality of distillation columns, wherein a high boiler fraction containing the stabilizer system accumulates in the bottom of at least one distillation column and a part-stream of the high boiler fraction is removed and is mixed with the feed of an upstream column.

5. (Amended) A process as claimed in [any of claims 1 to 4] claim 1, wherein the concentration of the N-oxyl radicals in the mixture is from 5 to 150 ppm, based on ethylenically unsaturated compounds.

6. (Amended) A process as claimed in [any of claims 1 to 5] claim 1, wherein the stabilizer system furthermore contains a polymerization retardant.

8. (Amended) A process as claimed in [any of claims 1 to 7] claim 1, wherein the ethylenically unsaturated compound is a vinylaromatic compound.

9. (Amended) A process as claimed in [any of the preceding claims] claim 1, wherein the reference value is dependent on at least one further measured variable which is selected from a temperature, a redox potential, an NIR transmission or absorption, the turbidity, viscosity, density or a refractive index.--